

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	197	(pulse modulat\$5) near7 (phase adj relation\$4) with (sens\$4 parameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:31
L2	676059	((first with second) plural\$4 multiple) with (tool device apparatus element) with (control\$4 operat\$4 synchroniz\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:28
L3	41	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:30
L4	200782	(laser with (cutting drilling etching braz\$4 melt\$4 punch\$4 perforat\$4 scor\$4 engrav\$4 clean\$4 weld\$4 solder\$4 bond\$4 coat\$4 sinter\$4 prototyp\$4 harden\$4 refin\$4 polish\$4 mark\$4 bend\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:41
L5	200782	L4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:31
L6	3	3 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:31
L7	299	(pulse modulat\$5) with (phase adj relation\$4) with (sens\$4 parameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:32
L8	3	2 and 7 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:32
L9	340	(pulse modulat\$5) with (sens\$4 parameter) same (phase adj relation\$4) with (sens\$4 parameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:34

## EAST Search History

L10	0	2 and 9 and 5 not 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:33
L11	11791	(master same slave) same ((pulse modulat\$5) (sens\$4 parameter) (phase adj relation\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:37
L12	159	4 and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:42
L13	22	(master same slave) same ((pulse modulat\$5) and (sens\$4 parameter) and (phase adj relation\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:39
L14	1	4 and 13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:38
L15	3	(master same slave) same ((pulse modulat\$5) with (phase adj relation\$4) same (sens\$4 parameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:40
L16	0	4 and 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:40
L17	464	4 and (master with slave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:42
L18	85	12 and laser.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:43
L19	59	12 and laser.clm. and control\$4. clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:43

## EAST Search History

L20	59	12 and laser.clm. and control\$4. clm. and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 11:59
L21	9	12 and "219"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:44
L22	54	12 and laser.clm. and control\$4. clm. and 4 not ((master slave) with computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:51
L23	48	12 and laser.clm. and control\$4. clm. and 4 not ((master slave) same computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:51
L24	1	("6580055").PN.	USPAT; USOCR	OR	OFF	2006/06/08 11:59
S1	495	(laser with (machining cut cutting drill\$4 weld\$4 melt\$4 ablat\$4)) and (synchron\$9 near5 modulat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:57
S2	9	(laser with (machining cut cutting drill\$4 weld\$4 melt\$4 ablat\$4)) and ((synchron\$9 near5 modulat\$5) same (first near5 beam) same (second near5 beam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:03
S3	1	S2 and pulse with phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:39
S4	95	S1 and pulse with phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:39
S5	5	S1 and pulse with (phase near5 relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:44

## EAST Search History

S6	1	S1 and pulse\$ with slave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:45
S7	7	S1 and slave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:46
S8	0	S1 and (laser with first with second with slave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:46
S9	2	((machining cut cutting drill\$4 weld\$4 melt\$4 ablat\$4) with laser) and (laser with first with second with slave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:50
S10	5	"5925268" and slave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:49
S11	4	((machining cut cutting drill\$4 weld\$4 melt\$4 ablat\$4) with laser) and (laser with first with second) and (pulse with slave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 15:50
S12	71	(laser with (machining cut cutting drill\$4 weld\$4 melt\$4 ablat\$4)) same (multiple near5 (laser beam)) and (synchron\$9 with pulse)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 16:21
S13	17293	b23k026\$.ipc.	JPO	OR	ON	2005/11/10 16:21
S14	1	S13 and slave	JPO	OR	ON	2005/11/10 16:23
S15	310	S13 and synchron\$9	JPO	OR	ON	2005/11/10 16:23
S16	18	S13 and trigger\$4 and synchron\$9	JPO	OR	ON	2005/11/14 07:39
S17	9	((("4870244") or ("5073687") or ("6388227") or ("5006688") or ("5298715") or ("5821493") or ("5859402") or ("5196671") or ("5179260"))).PN.	USPAT; USOCR	OR	OFF	2005/11/14 07:39
S18	2	"20010050931"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 07:40

## EAST Search History

S19	2	"19627803"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 07:40
S20	13	S17 S18 S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 08:40
S21	377	laser with master with slave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 08:41
S22	0	S20 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 08:40
S23	65	S21 and (pulse with (modulat\$5 synchroniz\$7))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 08:41
S24	16	S21 and (pulse with (modulat\$5 synchroniz\$7) with first with second)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 09:33
S25	3	S21 and (pulse with (modulat\$5 synchroniz\$7) with control\$4 with first with second)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:00
S26	0	S21 and (pulse with (modulat\$5 synchroniz\$7) with control\$4 with (anti?phase antiphase))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 10:39
S27	0	S21 and (pulse with (modulat\$5 synchroniz\$7) with (anti?phase antiphase))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 10:39
S28	0	S21 and (pulse with (anti?phase antiphase))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 10:39

## EAST Search History

S29	2	S21 and ((anti?phase antiphase))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 10:39
S30	1	("6838639").PN.	USPAT; USOCR	OR	OFF	2006/06/07 12:00
S31	1	("4817106").PN.	USPAT; USOCR	OR	OFF	2006/06/07 12:09
S32	3	((("4870244") or ("5073687") or ("5006688")).PN.	USPAT; USOCR	OR	OFF	2006/06/07 12:25
S33	1	("5337323").PN.	USPAT; USOCR	OR	OFF	2006/06/07 13:28
S34	0	S33 and phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:26
S35	0	S33 and synchroni\$7 with pulse	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:26
S36	1	S33 and pulse with modulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:27
S37	1	S33 and master withslave with pulse	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:28
S38	9248	laser with pulse with modulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:30
S39	649	S38 and (phase with relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:31
S40	97	S38 and (phase with relation\$4 with control\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:39

## EAST Search History

S41	8	S40 and (laser with (tool machining cutting drilling melting welding etching texturing workpiece))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:52
S42	2	S38 and (phase with relation\$4 with control\$4) with (((first with second) plural\$4 multiple) near5 (tool\$4 device apparatus))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:04
S43	10	S40 and (laser with (phase near9 (input sens\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 12:53
S44	8	(laser with pulse with control\$4) and (phase with pulse with control\$4) with (((first with second) plural\$4 multiple) near5 (tool\$4 device apparatus))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:06
S45	7	S44 not S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:13
S46	17685	b23k026\$.ipc.	JPO	OR	ON	2006/06/07 13:07
S47	1	S46 and (laser with pulse with control\$4) and (phase with control\$4) and ((first with second) plural\$4 multiple)	JPO	OR	ON	2006/06/07 13:08
S48	70	S46 and laser and ((pulse phase) with control\$4) and ((first with second) plural\$4 multiple) not S47	JPO	OR	ON	2006/06/07 13:09
S49	3	S46 and laser and ((pulse phase) with control\$4) and (((first with second) plural\$4 multiple) near5 (tool\$3 device))	JPO	OR	ON	2006/06/07 13:10
S50	403	219/121.62.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:13
S51	18	S50 and phase with (pulse modulat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:51

## EAST Search History

S52	0	S33 and phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:28
S53	200534	(laser with (cutting drilling etching braz\$4 melt\$4 punch\$4 perforat\$4 scor\$4 engrav\$4 clean\$4 weld\$4 solder\$4 bond\$4 coat\$4 sinter\$4 prototyp\$4 harden\$4 refin\$4 polish\$4 mark\$4 bend\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:30
S54	5844	S53 and (phase with (pulse modulat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:52
S55	588	S53 and ((first and second) with phase with (pulse modulat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:53
S56	6	S55 and (first and second) with tool\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:55
S57	2	S55 and (first near3 tool\$4) and (second near3 tool\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:56
S58	882	S53 and (first near3 tool\$4) and (second near3 tool\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:56
S59	357	S53 and (first adj2 tool\$4) and (second adj2 tool\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:57
S60	2	S53 and (first adj2 tool\$4) same (second adj2 tool\$4) same (pulse phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 13:59



## EAST Search History

S61	4987	S53 and (first with second with phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:00
S62	142	S53 and (first with second with (phase near3 relativ\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:00
S63	67	S53 and ((first and second) near5 (phase near3 relativ\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:01
S64	6	S53 and ((first and second) near5 (phase near3 relativ\$5) with relation\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:13
S65	123	S53 and ((first and second) near5 (pulse adj2 modulat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:14
S66	15	S53 and ((second) near5 (pulse adj modulat\$4)) same ((first) near5 (pulse adj modulat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:28
S67	0	"200325081"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:22
S68	4	"2003025081"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:22
S69	201	pulse with phase adj relation\$4 with sens\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 10:25
S70	2	S53 and S69	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:29

## EAST Search History

S71	123730	"219"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:30
S72	3	S69 and S71	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:32
S73	106883	laser.cfm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:33
S74	18	S69 and S73	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/07 14:33